

CLAIMS

1. An arrangement for implementing data transmission at least between two apparatuses which apparatuses comprise means for establishing connection to a data transmission system, in which system

at least a part of the connection between at least two different apparatuses is implemented by a wireless connection, and during which communication authentication of the parties is associated to improve safety,

at least a part of the communication of the apparatuses is arranged to be performed by means of method calls, each method call containing a service request,

the arrangement comprising:

one or more service brokers directing the service request contained in the method call to a given server, which is arranged to reply to the method call according to the required service by sending the information required for the service to the service broker which is arranged to send the information to the sender of the method call, and

an adapter which is connected to wireless apparatuses and which adapts the protocol used in the wireless connection to the rest of the network and which adapter is arranged to find the server providing the requested service on behalf of the apparatus which sent the method call and which operates in a wireless network.

2. An arrangement as claimed in claim 1, where in the adapter is arranged to take care of the authentication of the parties on behalf of the apparatus which sent the method call and which operates in a wireless network.

3. An arrangement as claimed in claim 1, where in the apparatuses of the system comprise means for running software and that the software is arranged to request information by sending a method call.

4. An arrangement as claimed in claim 3, where in the software in the apparatus behind the wireless connection is arranged to send a service request which comprises information on the required server in substantially shorter format than in a service request of an apparatus behind a fixed connection.

5. An arrangement as claimed in claim 3, where in the software in the apparatus behind the wireless connection is arranged to send a service request comprising information on the required server in text format.

6. An arrangement as claimed in claim 3, where in the apparatus
5 behind the wireless connection comprises a service broker which forwards the method call to the adapter.

7. An arrangement as claimed in claim 1, where in the adapter comprises software which adapts the service request to suit the rest of the network.

10 8. An arrangement as claimed in any one of the preceding claims, where in the system uses the GIOP protocol in data transmission.

9. A method of implementing data transmission between at least two apparatuses which comprise means for establishing a connection with a data transmission system, the method comprising:

15 implementing at least a part of the connection between at least two different apparatuses by a wireless connection,

performing at least a part of the communication of the apparatuses by means of method calls, each method call containing a service request,

performing authentication of the parties during communication to
20 improve safety,

directing a method call to a service broker of the system,

sending the method calls from apparatuses using wireless connections to an adapter by the service broker,

adapting by the adapter the protocol used in the wireless
25 connection to the rest of the network ,

finding a server providing the requested service by the adapter on behalf of the apparatus which sent the method call and which operates in a wireless network.

directing the service request contained in the method call by the
30 service broker to the provided server,

sending a reply to the method call by the provided server according to the required service by sending the information required for the service to the service broker,

sending the information to the sender of the method call by the
35 service broker.

10. A method as claimed in claim 9, further comprising the step of taking care of the authentication of the parties by the adapter on behalf of the apparatus which sent the method call and operates in a wireless network.

11. A method as claimed in claim 9, further comprising the step of
5 requesting information by sending a method call by the software comprised by the apparatuses of the system.

12. A method as claimed in claim 9, further comprising the step of sending a method call by the software of the apparatus behind the wireless connection, the method call comprising a service request in a substantially
10 shorter format than in a service request of an apparatus behind fixed connection.

13. A method as claimed in claim 9, further comprising the step of sending a method call by the software of the apparatus behind the wireless connection, the method call comprising a service request in text format.

14. A method as claimed in claim 9, further comprising the step of
15 adapting the service request by the adapter to suit the rest of the network.

15. A method as claimed in claim 9, further comprising the step of sending a method call by means of one or more short messages by the apparatus behind the wireless connection.

16. A method as claimed in claim 9, further comprising the step of
20 sending a method call by means of a data call by the apparatus behind the wireless connection.

17. A method as claimed in claim 9, further comprising the step of sending a method call as a packet data service by the apparatus behind the
25 wireless connection.

18. A method as claimed in claim 9, where in the adapter sends the reply message of the server to the apparatus behind the wireless connection by means of one or more short messages.

19. A method as claimed in claim 9, where in the adapter sends the
30 reply message of the server to the apparatus behind the wireless connection by means of a data call.

20. A method as claimed in claim 9, where in the adapter sends the reply message of the server to the apparatus behind the wireless connection as a packet data service.

21. A method as claimed in claim 9, where in the adapter and the apparatus behind the wireless connection transmit data by means of the Bluetooth method.

22. A method as claimed in claim 9, where in the adapter and the
5 apparatus behind the wireless connection transmit data by means of an infra-red connection.